

Osmosis Review
ms. Ottolini, PreAP Biology

If a cell is placed in Hypotonic solution, the solution has high water / low solute compared to the cell



Water enters the cell →
cell swells and could burst

Memory trick: In hypotonic solution, the cell is like a hippo ... it drinks all the water and gets bigger

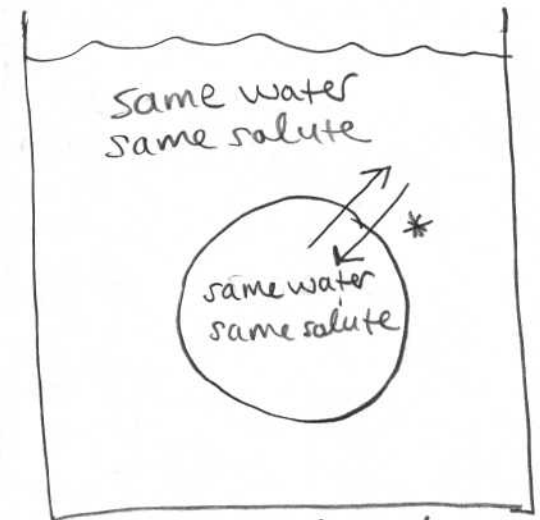
If a cell is placed in Hypertonic solution, the solution has low water / high solute compared to the cell



Water leaves the cell →
cell shrinks / shrivels

Memory trick: In hypertonic solution, the cell gets hyper, runs around, and sweats (loses water)

If a cell is placed in Isotonic solution, the solution has the same water / same solute as the cell



* water comes in and out of the cell at the same rate
(No net gain or loss of water)

Memory trick: In isotonic solution, the cell says "I so happy" ... it doesn't want to take in or lose water